```matlab
k=1;
alpha=1;
for r=1:1:5
    alpha=1/(1+r*log(2));
    fin(k)=alpha;
    alpha=1;
    k=k+1;
end
x=1:1:5;
plot(x,fin);
xlabel("R- rate of transmission")
ylabel("optimum alpha")
%legend({'R=1','R=2','R=3','R=4','R=5'},'Location',"best")
title("Optimum alpha vs Rate of transmission(R)")
```
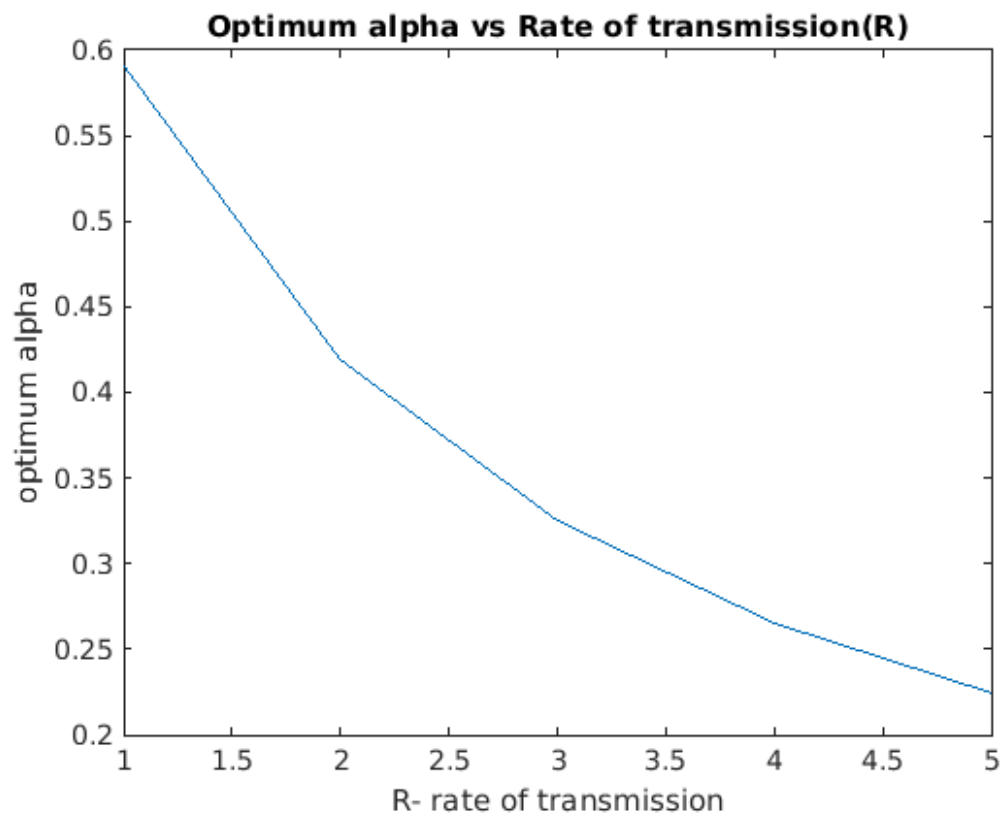

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